State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-127-1

Relating to Certification of New Heavy-Duty Motor Vehicle Engines
CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas (CNG) and Liquid Natural Gas (LNG)

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
SCE611FBCAAW (433A)	10.0	611	Charge Air Cooler Turbocharger Oxidation Catalytic Converter Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	
1.2	15.5	5.0	0.07

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

Engine	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
SCE611FBCAAW (433A)	0.2	0.4	1.8	0.02

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine family is certified for use in urban buses.

Executive Order A-21-127 dated December 21, 1994, is hereby superseded by Executive Order A-21-127-1.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this

day of March,

(R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer_Cummins_Engine_Company, Inc. Engine_Family_433A SCE611FBCAAW Displacement: / 10 Liters / 611 Cubic Inches Maximum_Rated_Power: 260 HP @ 2100 RPM Engine_Configuration: I6 Ignition: Compression Compression with Glow Plug Spark_xx Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Diesel M100 M85 Fuel Type(s): Dedicated Flex-Fuel Other (specify) 0ther (specify)			Company Inc	Engi	ne Family 433	A SCE611	FBCAAW
Maximum Rated Power: 260 HP @ 2100		,	10 11	ters	/01	<u></u>	D 0 10000000
Type(s): Dedicated		Davies 260	нр ю	2100	Kali rua ine	Colli Igai a	
Fuel Type(s): Dedicated Flex-Fuel Dual-ruel Diesel HIGG CNGxx	_		Compy	accion WITh 6	INW PLUG		3941 K_XX
Diesel Cert Fuel: 13 CCR 2282	Ignition: Com	pression	Flav-Fuel	Dual-Fuel	Diesel	M100	M85
Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94			1 00	II+KAW /CNACII	- V I		
Exhaust ECS (incl. MFI, TC, CAC): ECM, OC, TC, CAC (use abbreviations per SAE J1930 SEP91)	DI 3 Comb Fin	CNG <u>XX</u> LING	282 40	CFR 86.1313-	-90 4	O CFR 86.1	313-94
Exhaust ECS (incl. MFI, TC, CAC): ECM, OC, TC, CAC (use abbreviations per SAE J1930 SEP91) Engine Model (Eng Code) Rated HP (Part No. Part No. Pa	Diesel Cert ru	el: 13 ccn z	202 IHD	MHD	HHD	Urba	n Bus <u>xx</u>
Engine Model (Eng Code) Rated HP (a RPM) Rated HP (a Rate (a Rated HP (a Rate (a Rated HP (a R	Primary Intend	ed Service Ci	CAC) · FCM. C	C. TC. CAC			
Engine Model (Eng Code) Rated HP (RPM) Rated HP (Rate (Rate (Red)) Red (Red)	Exhaust ECS (1	nci. mri, io,	(CAO).	use abbrevia	tions per SAE	J1930 SEP	31)
Engine Model (Eng Code) Rated HP (RPM) Rated						EGR	PTOX /
(Eng Code) @ RPM mm / Stroke (1bs/hr) Part No. L10-260G * (1936) (1937) (1938) 260 @ 2100 (98) MIXER 3090961 3080909 N/A 3077383	Fngine Model		@_Rated HP	& Injector	ECM/PCM		· • .
L10-260G X (1936) (1937) (1938	(Eng Code)	@ RPM	mm / stroke (lhs/hr)	Part No.	rait No.	14101101	
L10-260G * 260 @ 2100 (98) 3090961 3080909 N/A 3077383					3080909	N/A	3077383
(1937) (1938)		260 @ 2100	(98)	2030301	3000303	.,,	
3020061 3080909 N/A 3077383							
, l	(1938)			1			2077202
L10-240G* 240 @ 2100 (90) 3090961 3000909 1771	L10-240G*	240 @ 2100	(90)	3090961	3080909	N/A	3077383
(1936)]			
(1937) (1938)							
	(022)						
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* NOTE: LNG Component / SYSTEM P/N 3088827, IS LISTED IN APPLICATION AND IT IS	•			227	THE IN APP	LICATION A	NO IT IS
* NOTE: LNG Component system P/N 30888C1, 15 LISTED	* NOTE : LNE	component sy	Tem 7/N 308	8801, 15 L	1		
CHIMMINS CORTIFIED USING MUE Components.	A.L.	TIG	LED USING MUL	comprets.		1	
Cammins Conciliant	CBM	MINS CORLIF	'				
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Date Issued:	Date Issued:						ı
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